

ACTIVE PIXEL HAVING BURIED TRANSISTOR

ABSTRACT OF THE DISCLOSURE

An active pixel for an image sensor that has minimized $1/f$ noise. The active pixel includes an amplification transistor that is implemented as a "body current" transistor. This minimizes the effect of surface oxide traps that are believed to cause $1/f$ noise. Further, the reset transistor, the row select transistor, and transfer transistor of the active pixel may also be implemented as a body current transistor to further reduce $1/f$ noise.